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TITLE:

WEAR-RESISTANT SINTERED HARD ALLOY

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INVENTOR-INFORMATION:

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ABSTRACT:

PURPOSE: To obtain the titled sintered hard alloy composed of the WC-base sintered hard alloy contg., in a proper ratio, a binding phase having a specified composition consisting of Ni, Co, Mo and Cr, which has superior properties such as resistance to heat, impact and thermal shock as well as wear resistance at high temps.

CONSTITUTION: The binding phase of a WC-base sintered hard alloy consists of Ni, Co, Mo and Cr, and the composition thereof is as follows: Mo/(Ni+Co+ Mo+Cr)=1/50 ~1/10, Cr/(Ni+Co+Mo+Cr)=1/20 ~ 1/5, Co/Ni=9/1 ~1/9; Ni+Co+ Mo+Cr=10 ~30wt%. Hereby a sintered hard alloy having excellent properties under the conditions in which thermal shock and thermal fatigue resistance as well as wear resistance at high temp. are required can be obtained.

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